

Notice of Allowability

Application No.

10/733,537

Applicant(s)

KIM ET AL.

Examiner

Art Unit

Pho M. Luu

2824

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to ____.
2. ☒ The allowed claim(s) is/are 1-28.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 9/22/05.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 03/29/04
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Interview Summary (PTO-413), Paper No./Mail Date ____
- ☒ Examiner's Amendment/Comment
- ☒ Examiner's Statement of Reasons for Allowance
- ☒ Other Search History.


ANH PHUNG
PRIMARY EXAMINER

DETAILED ACTION

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In abstract:

Line 1, please delete "This invention overcome the problems inherent in the prior art".

Lines 2-3, please delete "The invention provides".

Line 1, replace "for increasing" with --For increasing--.

Line 3, replace "a boost" with --A boost--.

2. This office action acknowledges receipt of the following items from the Applicant:

The Specification, Claims, Abstract and Drawing filed on 12 November 2003.

Oath or Declaration and the corrected or substitute drawings were received on 29 March 2004.

3. Claims 1-28 are pending in the application.

Drawings

4. Figures 3-6 should be designated by a legend such as --**Prior Art**-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction

or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Information Disclosure Statement

5. Acknowledgment is made of applicant's Information Disclosure Statement (IDS) Form PTO-1449, filed 29 March 2003. The information disclosed therein was considered.

Allowance

6. Claims 1-28 is allowance.

The following is an examiner's statement of reasons for allowance:

There is no teaching or suggestion in the prior art to: "a read selection transistor having a gate coupled to a dynamic read selection signal further comprising a circuit interposed between the read signal and the gate increasing a level of a drive signal applied to the gate to be greater than supply voltage in a register file" as claimed in claims 1-8; or

"a high voltage threshold read selection transistor having a gate coupled to a dynamic read selection signal and coupled in series with a lower voltage threshold bitcell data transistor further comprising a circuit interposed between the read selection signal and the gate of M2 for increasing a level of a drive signal applied to the gate to be greater than supply voltage in a register file" as claimed in claims 9-14; or

"boosting the maximum voltage level of the read select signal that it exceeds the level of the circuit supply voltage before applying the read select signal to the gate of

the high voltage read selection transistor in a dual Vt bitline circuit” as claimed in claims 15-20; or

“a read selection transistor having a gate coupled to a dynamic read selection signal further comprising a circuit interposed between the read signal and the gate increasing a level of a drive signal applied to the gate to be greater than supply voltage in a register file” as claimed in claims 21-28.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Slamowitz et al. (US. 6,519,204) disclosed a multi port register file memory including a plurality of storage element are arranged in row, column and store data.

9. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Pho M. Luu whose telephone number is 571.272.1876. The examiner can normally be reached on M-F 8:00AM – 5:00PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Richard Elms, can be reached on 571.272.1869. The official fax number for the organization where this application or proceeding is assigned is 703.872.9306 for all official communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PML
22 September 2005



ANH PHUNG
PRIMARY EXAMINER